

DIGITAL IMAGING APPARATUS

Abstract of the Disclosure

5 The present invention provides a digital imaging apparatus having an optical sensor, an analog-to-digital converter, a plurality of computational elements, and an interconnection network. The optical sensor converts an object image into a detected image, which is then converted to digital image information by the analog-to-digital converter. The plurality of computational elements includes a first computational
10 element having a first fixed architecture and a second computational element having a second, different fixed architecture. The interconnection network is capable of providing a processed digital image from the digital image information by configuring and reconfiguring the plurality of computational elements for performance of a plurality of different imaging functions. The invention may be embodied, for example, as a digital
15 camera, a scanner, a printer, or a dry copier.